

AQC1129

Nanopublication – Computational Image Analysis – AQC1129

by Arnaud Quercy · Ab7#11 - Research on Harmony - Variations 1 · 2026



CLAIM 1: COMPUTATIONAL IMAGE ANALYSIS - AQC1129

K-means clustering (10 colors) performed on artwork Ab7#11 - Research on Harmony - Variations 1 (AQC1129) [1] by Arnaud Quercy [2] on 2026-10-02, according to IDS-CMP-2025 [3]. Documentation includes: color families, texture roughness, brightness distribution, spatial coherence.

CONTEXT

Analysis performed according to IDS-CMP-2025 [3] includes four metric categories: (a) Color distribution via k-means (10 colors), (b) Texture analysis using Haralick features, (c) Brightness and contrast measurements, (d) Spatial pattern characterization. Source image: 2557x2419 pixels. Analysis date: 2026-10-02.

A) COLOR ANALYSIS

Rank	Color	Hex	%	Family	Name
1		C7B8A4	25.0	yellow-orange	tan
2		A0907C	19.0	yellow-orange	rosybrown
3		B5A48F	11.8	yellow-orange	steel gray
4		2D2A2E	10.4	gray	very dark gray
5		964536	8.0	red-orange	burnt sienna
6		9D7058	6.8	orange	gray
7		0C0606	6.0	black	black
8		5D5144	4.7	yellow-orange	dark brown
9		9B250A	4.5	red-orange	firebrick
10		E6DFCF	3.8	yellow-orange	gainsboro

Color Families:

Family	%
yellow-orange	64.3
red-orange	12.5
gray	10.4
orange	6.8
black	6.0

B) TEXTURE ANALYSIS

Metric	Value
Global Roughness	0.231
Mean Local Roughness	0.026
Roughness Uniformity	0.019
Edge Density	0.109
Mean Gradient Magnitude	0.184
Gradient Variance	0.044
Gradient Smoothness	0.0
Directional Coherence	0.013
Pattern Complexity	0.139
Pattern Repetition	1.0
Detail Frequency Ratio	0.676
Spatial Variation	0.152
Texture Consistency	0.61

C) BRIGHTNESS & CONTRAST ANALYSIS

Metric	Value
Mean Brightness	0.513
Brightness Variance	0.231
Brightness Uniformity	0.55
Brightness Skewness	-0.586
Brightness Entropy	7.46
Rms Contrast	0.231
Michelson Contrast	1.0
Weber Contrast	0.785
Mean Local Contrast	0.027
Contrast Uniformity	0.224
Dynamic Range	0.992
Effective Dynamic Range	0.725
Shadow Percentage	25.153
Midtone Percentage	41.065
Highlight Percentage	33.782
Shadow Clipping	0.021
Highlight Clipping	0.0
Tonal Balance	0.066
Fine Contrast	0.017
Medium Contrast	0.033
Coarse Contrast	0.04
Multiscale Contrast Ratio	0.432
Edge Contrast	0.184
Contrast Clustering	0.39

D) SPATIAL DISTRIBUTION ANALYSIS

Metric	Value
Spatial Coherence	0.77
Color Clustering	0.792
Color Transition Smoothness	0.533
Transition Uniformity	0.712
Sharp Transition Ratio	0.1
Transition Directionality	0.012
Mean Saturation	0.302
Saturation Variance	0.049
Low Saturation Ratio	0.696
Medium Saturation Ratio	0.229
High Saturation Ratio	0.075
Saturation Clustering	0.998
Hue Concentration	0.928
Complementary Balance	0.016
Analogous Dominance	0.964
Temperature Bias	0.95

Methodology

This analysis employs standardized computational methods for objective image characterization. Color extraction uses k-means clustering algorithm. Texture analysis applies Haralick feature extraction. Brightness metrics include mean, variance, and distribution analysis. Spatial patterns are characterized through coherence and clustering measurements. All methods are deterministic and reproducible. Analysis performed by Ideamorphic Studies' computational imaging systems.

REFERENCES

[1] Quercy, A. (2026). Ab7#11 - Research on Harmony - Variations 1 - Catalogue Raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC1129.html>

[2] Quercy, A. (2025). ORCID <https://orcid.org/0009-0000-2662-7790>

[3] Quercy, A. (2026). Computational Image Analysis Standard. <https://ideamorphism.org/en/measurements/2025/11/ids-cmp-2025-computational-image-analysis-standard-5dq9.html>

WHERE THIS WORK LIVES

Collection: Harmonic Crossing

DOCUMENTED AT

Catalogue Raisonné – Ab7#11 – Research on Harmony – Variations 1 – Ab7#11 – Research on Harmony, Variations 1 – Cycle of Fifths Painting – Arnaud Quercy (2026)

Gallery – Ab7#11 – Research on Harmony - Variations 1

EPISTEMIC PROFILE

Claim type	computational analysis
Voice	third person
Epistemic status	empirical measurement
Methodology	computational analysis
Certainty	high

CHECKSUM (SHA-256)

06bb769e92e6004eb87273adfe661a7065a8689477ccb63ad30739ee06d40383

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Artist	Arnaud Quercy
Date	2026
Collection	Harmonic Crossing
Certificate	20261002-0180
Asset code	AQC1129
Version	1
Published	2026-10-02

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NY DOS ID 7624376 · Assumed Name ID 7658709

publishing.artquamanima.com

Last updated: 2026-10-12

Persistent URI: <https://ideamorphism.org/en/nanopubs/2026/10/AQC1129-computational-image-analysis-aqc1129.pdf>